

Eccentric Pump and Method for Operation of said Pump**Abstract**

The invention relates to a pump (1) with a housing (2), having an inlet (28) and an outlet (29), a drive (5), a fixed cylinder (2) central to a mid-axis (9), a displacer (18), rotating eccentrically within the cylinder (2), a crank drive (13) for the displacer (18), a circumferential sickle-shaped pumping chamber (26) between the cylinder (2) and displacer (18) and a helical sealing element (27, 27', 27'', 39) in the pumping chamber (26). According to the invention, the pump is embodied as a dry vacuum pump, whereby the displacer (18) circulates in the cylinder (2) without making contact.

(drawing figure 1)